

WEST Search History

DATE: Tuesday, August 12, 2003

| <u>Set Name</u> | <u>Query</u> | <u>Hit Count</u> | <u>Set Name</u> result set |
|--|---|------------------|-------------------------------|
| side by side | | | |
| <i>DB=USPT; PLUR=YES; OP=AND</i> | | | |
| L1 | (inactivat\$ or block\$ or inhibit\$ or antagon\$ or antag-onist\$ or modulat\$).clm. | 274460 | L1 |
| <i>DB=JPAB,EPAB,DWPI; PLUR=YES; OP=AND</i> | | | |
| L2 | (inactivat\$ or block\$ or inhibit\$ or antagon\$ or antag-onist\$ or modulat\$).clm. | 0 | L2 |
| L3 | (inactivat\$ or block\$ or inhibit\$ or antagon\$ or antag-onist\$ or modulat\$).ti,ab. | 1543900 | L3 |
| L4 | (dam or d-a-m or methyltransferase or methyl-transfer or methyl-transferase).clm. | 0 | L4 |
| <i>DB=USPT; PLUR=YES; OP=AND</i> | | | |
| L5 | (dam or d-a-m or methyltransferase or methyl-transfer or methyl-transferase).clm. | 3294 | L5 |
| L6 | L5 same l1 | 248 | L6 |
| L7 | L6 and (method or process).clm. | 109 | L7 |
| L8 | ('6011200' '6066625' '6020318' '5652105' '6184211' '5451519' '6506735')[PN] | 7 | L8 |
| L9 | ('6011200' '6066625' '6020318' '5652105' '6184211' '5451519' '6506735')[PN] | 7 | L9 |
| <i>DB=JPAB,EPAB,DWPI; PLUR=YES; OP=AND</i> | | | |
| L10 | (dam or d-a-m or methyltransferase or methyl-transfer or methyl-transferase) same l3 | 1331 | L10 |

| | | | |
|-----|--|-----|-----|
| L11 | (dam or d-a-m or methyltransferase or methyl-transfer or methyl-transferase) near10 l3 | 656 | L11 |
|-----|--|-----|-----|

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|-----|---|-----|-----|
| L12 | (dam or d-a-m or methyltransferase or methyl-transfer or methyl-transferase) near5 l3 | 751 | L12 |
|-----|---|-----|-----|

*DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES;
OP=AND*

| | | | |
|-----|--|----|-----|
| L13 | (l12 or l6 or l7) and (bacteria or bacterium or microorganism or pathogen or salmonella or coli or cholerae or pseudotuberculosis or haemophilus or hemophilus or pasteurilla or treponema or bordetella or neisseria or shigella) | 23 | L13 |
|-----|--|----|-----|

END OF SEARCH HISTORY

WEST

Generate Collection

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L13: Entry 16 of 23

File: DWPI

Jan 14, 2003

DERWENT-ACC-NO: 2001-112135

DERWENT-WEEK: 200306

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TITLE: New adenine derivatives are DNA methyltransferase inhibitors used to treat diseases or disorders associated with e.g. Staphylococcus aureus and Streptococcus pyogenes including actinomycosis, anthrax and bacterial dysentery

INVENTOR: BAKER, S J; BENKOVIC, S J ; SHAPIRO, L ; WAHNON, D C ; WALL, M

PATENT-ASSIGNEE: PENN STATE RES FOUND (PENNN)

PRIORITY-DATA: 2000US-174256P (January 3, 2000), 1999US-135870P (May 25, 1999), 1999US-154582P (September 17, 1999)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|-----------------|--------------------|----------|-------|------------|
| JP 2003501431 W | January 14, 2003 | | 072 | C07D473/34 |
| WO 200075142 A2 | December 14, 2000 | E | 055 | C07D473/00 |
| AU 200075698 A | December 28, 2000 | | 000 | C07D473/00 |
| EP 1181291 A2 | February 27, 2002 | E | 000 | C07D473/00 |
| CN 1370170 A | September 18, 2002 | | 000 | C07D473/00 |

DESIGNATED-STATES: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|----------------|--------------|----------------|------------|
| JP2003501431W | May 25, 2000 | 2000WO-US14479 | |
| JP2003501431W | May 25, 2000 | 2001JP-0502424 | |
| JP2003501431W | | WO 200075142 | Based on |
| WO 200075142A2 | May 25, 2000 | 2000WO-US14479 | |
| AU 200075698A | May 25, 2000 | 2000AU-0075698 | |
| AU 200075698A | | WO 200075142 | Based on |
| EP 1181291A2 | May 25, 2000 | 2000EP-0964879 | |
| EP 1181291A2 | May 25, 2000 | 2000WO-US14479 | |
| EP 1181291A2 | | WO 200075142 | Based on |
| CN 1370170A | May 25, 2000 | 2000CN-0809844 | |

INT-CL (IPC): A61 K 31/52; A61 K 31/69; A61 K 31/7076; A61 P 31/00; A61 P 31/04; A61 P 43/00; C07 D 473/00; C07 D 473/34; C07 F 5/02; C07 H 19/16; C07 H 19/167; C07 H 19/173; C07 H 19/20; C12 N 9/99

ABSTRACTED-PUB-NO: WO 200075142A

BASIC-ABSTRACT:

NOVELTY - Adenine derivatives (I) are new.

DETAILED DESCRIPTION - Adenine derivatives of formula (I) and their salts are new.

R1-R3 = H, lower alkyl, optionally substituted aryl, lower alkoxy, lower alkoxyalkyl, 3-7-membered cycloalkyl or 3-7 membered cycloalkyl-alkoxy in which upto two cycloalkyl members are optionally O or N heteroatoms, and in which alkyl, aryl and cycloalkyl are optionally substituted by halo, lower alkyl, lower alkoxy or optionally substituted aryl and

R3 = ribose, deoxyribose or phosphorylated derivatives;

provided that:

(1) R1-R3 are not all H; and

(2) when R3 = ribose, deoxyribose or phosphorylated derivatives, then one of R1 or R2 is not H.

INDEPENDENT CLAIMS are also included for the following:

(1) compounds of formula (II) and their salts;

(2) combinatorial libraries of (I);

(3) combinatorial libraries of (II) and

(4) the following compounds: 6-N-(diphenylborinic ester)-ethyl-adenine; 6-N-(diphenylborinic ester)-ethyl-9-(2-(4-morpholinyl)-ethyl)-adenine; 6-N-(diphenylborinic ester)-ethyl-9-(3-(N-phthaloyl)-aminopropyl)-adenine; 6-N-(diphenylborinic ester)-ethyl-9-(2-(2-(2-hydroxyethoxy)ethoxy)ethyl)-adenine and 6-N-(diphenylborinic

ester)-ethyl-9-(ethyl-2-acrylate)-methyl- -adenine.

Ra-Rc = H, halo, nitro, nitroso, lower alkyl, optionally substituted aryl, lower alkoxy, lower alkoxyalkyl, or 3-7-membered cycloalkyl or 3-7-membered cycloalkyl-alkoxy in which upto two cycloalkyl members are optionally O, S or N heteroatoms, and in which alkyl, aryl or cycloalkyl are optionally substituted by halo, lower alkyl, lower alkoxy or optionally substituted aryl, halo, nitro, nitroso, aldehyde, carboxylic acid, amide, ester or sulfate or Ra-Rc are connected by aromatic, aliphatic, heteroaromatic, heteroaliphatic rings structures or their substituted derivatives, and

Ar1, Ar2 = aryl optionally substituted by at least one halo, nitro, nitroso, lower alkyl, optionally substituted aryl, lower alkoxy, lower alkoxyalkyl, or 3-7-membered cycloalkyl or 3-7-membered cycloalkyl-alkoxy in which upto two cycloalkyl members are optionally O, S or N heteroatoms, and in which alkyl, aryl and cycloalkyl are optionally substituted by halo, lower alkyl, lower alkoxy or optionally substituted aryl, halo, nitro, nitroso, aldehyde, carboxylic acid, amide, ester or sulfate.

ACTIVITY - Antibacterial; ophthalmological; nephrotropic; gastrointestinal; cardiant; antipyretic; antirheumatic; antiinflammatory.

In an in vivo assay, a compound of formula (IIb) exhibited IC50 values of 16 μ M and μ M against *Caulobacter crescentus* and *Bacillus subtilis*.

MECHANISM OF ACTION - Adenine DNA methyltransferase inhibitor.

USE - Used to treat diseases or disorders associated with pathogenic bacteria that express adenine DNA methyltransferase, particularly *Staphylococcus aureus*, *S. saprophyticus*, *Streptococcus pyogenes*, *S. agalactiae*, *S. pneumoniae*, *Bacillus anthracis*, *Corynebacterium diphtheria*, *Clostridium perfringens*, *C. botulinum*, *C. tetani*, *Neisseria gonorrhoeae*, *N. meningitidis*, *Pseudomonas aeruginosa*, *Legionella pneumophila*, *Escherichia coli*, *Yersinia pestis*, *Haemophilus influenzae*, *Helicobacter pylori*, *Campylobacter fetus*, *Vibrio cholerae*, *V. parahaemolyticus*, *Treponema pallidum*, *Actinomyces israelii*, *Rickettsia prowazekii*, *R. rickettsia*, *Chlamydia trachomatis*, *C. psittaci*, *Brucella abortus* or *Agrobacterium tumefaciens* (claimed). They may be used to treat animals, particularly humans, for bacterial diseases or opportunistic infections, particularly in immunocompromised patients or those with a debilitated state of health. They may be used as antibiotics to treat animals and humans infected with actinomycosis, anthrax, bacterial dysentery, botulism, brucellosis, cellulitis, cholera, conjunctivitis, cystitis, diphtheria, bacterial endocarditis, epiglottitis, gastroenteritis, glanders, gonorrhea, Legionnaire's disease, leptospirosis, bacterial meningitis, plague, bacterial pneumonia, purpural sepsis, rheumatic fever, Rocky Mountain spotted fever, scarlet fever, streptococcal pharyngitis, tetanus, tularemia, typhoid fever, typhus and pertussis. (I) and (II) also inhibit adenine-specific DNA-methyltransferases in plants.

ADVANTAGE - (I) Have little or no inhibitory effects on cytosine methyltransferases and have limited antibiotic effect on eukaryotic, particularly, mammalian cells.

ABSTRACTED-PUB-NO: WO 200075142A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/2

DERWENT-CLASS: B02

CPI-CODES: B04-B03A; B04-B03B; B05-B01A; B06-D09; B14-A01; B14-D06;

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L13: Entry 20 of 23

File: DWPTI

Mar 26, 1998

DERWENT-ACC-NO: 1998-217199

DERWENT-WEEK: 200248

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TITLE: Bacterial methyl-transferase proteins - used to isolate antibiotics and inhibitors of bacterial growth

INVENTOR: BENKOVIC, S J; BERDIS, A ; KAHNG, L S ; LEE, I ; SHAPIRO, L ; STEPHENS, C ; WRIGHT, R

PATENT-ASSIGNEE: PENN STATE RES FOUND (PENNN), UNIV LELAND STANFORD JUNIOR (STRD)

PRIORITY-DATA: 1996US-020089P (September 19, 1996), 1999US-0269137 (July 19, 1999)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------|----------------|----------|-------|------------|
| WO 9812206 A1 | March 26, 1998 | E | 070 | C07H021/04 |
| US 6413751 B1 | July 2, 2002 | | 000 | C12N009/10 |
| AU 9744860 A | April 14, 1998 | | 000 | C07H021/04 |

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU
ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG
SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU
MC MW NL OA PT SD SE SZ UG ZW

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|--------------|--------------------|----------------|-------------|
| WO 9812206A1 | September 17, 1997 | 1997WO-US16593 | |
| US 6413751B1 | September 19, 1996 | 1996US-020089P | Provisional |
| US 6413751B1 | September 17, 1997 | 1997WO-US16593 | |
| US 6413751B1 | July 19, 1999 | 1999US-0269137 | |
| US 6413751B1 | | WO 9812206 | Based on |
| AU 9744860A | September 17, 1997 | 1997AU-0044860 | |
| AU 9744860A | | WO 9812206 | Based on |

INT-CL (IPC): C07 H 21/02; C07 H 21/04; C07 K 16/40; C12 N 9/10; C12 N 15/63; C12 N 15/85; C12 Q 1/48;

C12 Q 1/68; G01 N 33/567

ABSTRACTED-PUB-NO: US 6413751B

BASIC-ABSTRACT:

An isolated nucleic acid encodes a methyltransferase, where the methyltransferase has a molecular weight of about 30-45 kD and binds to a polyclonal antibody that specifically binds to a polypeptide selected from the 376, 378, 85 or 359 amino acid sequences given in the specification. Also claimed are: (1) an isolated methyltransferase protein where the methyl transferase has a molecular weight of 30-45 kD and binds to a polyclonal antibody that specifically binds to a polypeptide selected from the 376, 378, 85 or 359 amino acid sequences, and (2) an assay for methyltransferase activity comprising: (a) contacting a processive methyltransferase with a substrate selected from: 5' atcctctcgcg*a(CH3)gtcaacagaaa 3' aggagagcgc tcagttgtctttataggcgc; 5' atcctctcgcg*a(CH3)gtcaacagaaatccgctcatcaccgcaagtt 3' aggagagcgc tcagttgtctttataggcgcagtagtggcgttcaaaaggca; and 5' atcctctcgcg*a(CH3)gtcaac-agaaatccgcgcagtcaccgcaagttttccgtitgaccggc 3' aggagagcgc tcagttgtctttataggcgcctcagtggcgttcaaaaggcaaaactggcgtggagg; and (b) further contacting the processive methyltransferase with a methyl donor prior to or at the same time as the addition of the DNA substrate, where the methyltransferase methylates the DNA substrate.

The nucleic acid is preferably the 1698 bp DNA sequence encoding the *Rhizobium meliloti* DNA methyltransferase with the 376 amino acid sequence. It can also be the 1731 bp DNA sequence encoding the 378 amino acid sequence of *Brucella abortus* DNA methyltransferase. The nucleic acid can be the 255 bp DNA sequence encoding the 85 amino acid sequence of *Agrobacterium tumefaciens* DNA methyltransferase. The nucleic acid sequence can alternatively be the 2091 bp DNA sequence of *Helicobacter pylori* DNA methyltransferase (all sequences given in the specification). In the method of (2), the methyl donor is S-adenosyl methionine. The assay is performed at 30 deg. C or 37 deg. C. The assay is performed in the presence of 150 mM potassium acetate.

USE - The methyltransferase proteins can be used in an assay for screening for inhibitors of DNA methyltransferase activity. They can also be used in an assay for detecting antibiotics that target processive adenine methyltransferases (both claimed). Inhibitors of the methyltransferase activity results in a migration or elimination of the subject bacteria to infect and/or grow and/or proliferate in an animal or plant host.

ABSTRACTED-PUB-NO: WO 9812206A

EQUIVALENT-ABSTRACTS:

An isolated nucleic acid encodes a methyltransferase, where the methyltransferase has a molecular weight of about 30-45 kD and binds to a polyclonal antibody that specifically binds to a polypeptide selected from the 376, 378, 85 or 359 amino acid sequences given in the specification. Also claimed are: (1) an isolated methyltransferase protein where the methyl transferase has a molecular weight of 30-45 kD and binds to a polyclonal antibody that specifically binds to a polypeptide selected from the 376, 378, 85 or 359 amino acid sequences, and (2) an assay for methyltransferase activity comprising: (a) contacting a processive methyltransferase with a substrate selected from: 5' atcctctcgcg*a(CH3)gtcaacagaaa 3' aggagagcgc tcagttgtctttataggcgc; 5' atcctctcgcg*a(CH3)gtcaacagaaatccgctcatcaccgcaagtt 3' aggagagcgc tcagttgtctttataggcgcagtagtggcgttcaaaaggca; and 5' atcctctcgcg*a(CH3)gtcaac-agaaatccgcgcagtcaccgcaagttttccgtitgaccggc 3' aggagagcgc tcagttgtctttataggcgcctcagtggcgttcaaaaggcaaaactggcgtggagg; and (b) further contacting the processive methyltransferase with a methyl donor prior to or at the same time as the addition of the DNA substrate, where the methyltransferase methylates the DNA substrate.

The nucleic acid is preferably the 1698 bp DNA sequence encoding the *Rhizobium meliloti* DNA methyltransferase with the 376 amino acid sequence. It can also be the 1731 bp DNA sequence encoding the 378 amino acid sequence of *Brucella abortus* DNA methyltransferase. The nucleic acid can be the 255 bp DNA sequence encoding the 85 amino acid sequence of *Agrobacterium tumefaciens* DNA methyltransferase. The nucleic acid sequence can alternatively be the 2091 bp DNA sequence of *Helicobacter pylori* DNA methyltransferase (all sequences given in the specification). In the method of (2), the methyl donor is S-adenosyl methionine. The assay is performed at 30 deg. C or 37 deg. C. The assay is performed in the presence of 150 mM potassium acetate.

USE - The methyltransferase proteins can be used in an assay for screening for inhibitors of DNA methyltransferase activity. They can also be used in an assay for detecting antibiotics that target processive adenine methyltransferases (both claimed). Inhibitors of the methyltransferase activity results in a migration or elimination of the subject bacteria to infect and/or grow and/or proliferate in an animal or plant host.

CHOSEN-DRAWING: Dwg.0/8

DERWENT-CLASS: B04 D16 S03

CPI-CODES: B04-E02F; B04-N03; B11-C08E3; B12-K04; D05-H09; D05-H12A;

EPI-CODES: S03-E14H4;

WEST**End of Result Set**

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L13: Entry 23 of 23

File: DWPI

Apr 23, 1985

DERWENT-ACC-NO: 1985-116000

DERWENT-WEEK: 198519

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TITLE: Treatment of psoriasis with pyrido:pyrimidine cpds. - namely
2,4-di:amino-6-(3,4-di:alkoxy:benzyl)-5-methyl:pyrido(2,3-d) pyrimidine(s)

Basic Abstract Text (2):

USE - (I) are known and have been used to treat bacterial infections caused by Pasteurella biviseptica, Shigella dysenterial and the genus Mycobacteria. (I; R=R'=Me) (covered by cpds. disclosed in GB1084103) has been shown to inhibit mammalian dihydrofolate reductase whilse having low inhibitory activity against histamine N-methyltransferase, hence the use for treating psoriasis.). (I) may be administered topically, parenterally or orally. Daily dosage is 0.1-100 (pref. 0.5-20, esp. 1-10) mg/kg.

WEST**Search Results - Record(s) 1 through 7 of 7 returned.**

L8: Entry 1 of 7

File: USPT

Jan 14, 2003

US-PAT-NO: 6506735

DOCUMENT-IDENTIFIER: US 6506735 B1

TITLE: Optimized antisense oligonucleotides complementary to DNA methyltransferase sequences

DATE-ISSUED: January 14, 2003

US-CL-CURRENT: 514/44, 435/183, 435/193, 435/325, 435/366, 435/371, 435/375, 536/23.1, 536/24.5INT-CL: [07] A61 K 48/00, C12 N 9/00, C12 N 15/85, C12 N 15/11, C07 H 21/04

L8: Entry 2 of 7

File: USPT

Feb 6, 2001

US-PAT-NO: 6184211

DOCUMENT-IDENTIFIER: US 6184211 B1

**** See image for Certificate of Correction ****

TITLE: Inhibition of DNA methyltransferase

DATE-ISSUED: February 6, 2001

US-CL-CURRENT: 514/44, 424/130.1, 435/183, 435/6, 435/7.1, 536/24.5INT-CL: [07] A61 K 48/00, A61 K 39/395, C07 H 21/04, C12 Q 1/68

L8: Entry 3 of 7

File: USPT

May 23, 2000

US-PAT-NO: 6066625

DOCUMENT-IDENTIFIER: US 6066625 A

**** See image for Certificate of Correction ****

TITLE: Optimized antisense oligonucleotides complementary to DNA methyltransferase sequences

DATE-ISSUED: May 23, 2000

US-CL-CURRENT: 514/44; 435/183, 435/193, 435/325, 435/366, 435/371, 435/375, 536/23.1, 536/24.5

INT-CL: [07] A61 K 48/00, C12 N 9/00, C12 N 15/85, C12 N 15/11, C07 H 21/04

L8: Entry 4 of 7

File: USPT

Feb 1, 2000

US-PAT-NO: 6020318

DOCUMENT-IDENTIFIER: US 6020318 A

**** See image for Certificate of Correction ****

TITLE: DNA methyltransferase genomic sequences and antisense oligonucleotides

DATE-ISSUED: February 1, 2000

US-CL-CURRENT: 514/44; 536/24.5

INT-CL: [06] A61 K 31/70, C07 H 21/00

L8: Entry 5 of 7

File: USPT

Jan 4, 2000

US-PAT-NO: 6011200

DOCUMENT-IDENTIFIER: US 6011200 A

TITLE: Methods for altering the rate of plant development and plants obtained therefrom

DATE-ISSUED: January 4, 2000

US-CL-CURRENT: 800/285; 435/410, 435/419, 435/468, 536/23.6, 800/278, 800/286, 800/290, 800/295, 800/298, 800/306

INT-CL: [06] C12 N 5/04, C12 N 15/29, C12 N 15/62, A01 H 5/00

L8: Entry 6 of 7

File: USPT

Jul 29, 1997

US-PAT-NO: 5652105

DOCUMENT-IDENTIFIER: US 5652105 A

TITLE: Substrate for detection of mammalian 5-C-DNA methyltransferase

DATE-ISSUED: July 29, 1997

US-CL-CURRENT: 435/6; 536/23.1

INT-CL: [06] C12 Q 1/68, C07 H 21/04

L8: Entry 7 of 7

File: USPT

Sep 19, 1995

US-PAT-NO: 5451519

DOCUMENT-IDENTIFIER: US 5451519 A

TITLE: Cloning restriction endonuclease genes by modulating methyltransferase activity

DATE-ISSUED: September 19, 1995

US-CL-CURRENT: 435/199, 435/193, 435/252.33, 435/320.1, 536/23.2

INT-CL: [06] C12 N 9/22, C12 N 15/55

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WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 7 of 7 returned.**☐ 1. Document ID: US 6506735 B1

L9: Entry 1 of 7

File: USPT

Jan 14, 2003

US-PAT-NO: 6506735

DOCUMENT-IDENTIFIER: US 6506735 B1

TITLE: Optimized antisense oligonucleotides complementary to DNA methyltransferase sequences

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw | Desc |
|-------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|------|------|
| Image | | | | | | | | | | | | | |

☐ 2. Document ID: US 6184211 B1

L9: Entry 2 of 7

File: USPT

Feb 6, 2001

US-PAT-NO: 6184211

DOCUMENT-IDENTIFIER: US 6184211 B1

**** See image for Certificate of Correction ****

TITLE: Inhibition of DNA methyltransferase

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw | Desc |
|-------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|------|------|
| Image | | | | | | | | | | | | | |

☐ 3. Document ID: US 6066625 A

L9: Entry 3 of 7

File: USPT

May 23, 2000

US-PAT-NO: 6066625

DOCUMENT-IDENTIFIER: US 6066625 A

**** See image for Certificate of Correction ****

TITLE: Optimized antisense oligonucleotides complementary to DNA methyltransferase sequences

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Desc |
|-------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|------------|
| Image | | | | | | | | | | | | |

☐ 4. Document ID: US 6020318 A

L9: Entry 4 of 7

File: USPT

Feb 1, 2000

US-PAT-NO: 6020318

DOCUMENT-IDENTIFIER: US 6020318 A

**** See image for Certificate of Correction ****

TITLE: DNA methyltransferase genomic sequences and antisense oligonucleotides

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Desc |
|-------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|------------|
| Image | | | | | | | | | | | | |

☐ 5. Document ID: US 6011200 A

L9: Entry 5 of 7

File: USPT

Jan 4, 2000

US-PAT-NO: 6011200

DOCUMENT-IDENTIFIER: US 6011200 A

TITLE: Methods for altering the rate of plant development and plants obtained therefrom

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | | | Draw. Desc |
|-------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|------|--|--|------------|
| Image | | | | | | | | | | | | | |

☐ 6. Document ID: US 5652105 A

L9: Entry 6 of 7

File: USPT

Jul 29, 1997

US-PAT-NO: 5652105

DOCUMENT-IDENTIFIER: US 5652105 A

TITLE: Substrate for detection of mammalian 5-C-DNA methyltransferase

| | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
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☐ 7. Document ID: US 5451519 A

L9: Entry 7 of 7

File: USPT

Sep 19, 1995

US-PAT-NO: 5451519

DOCUMENT-IDENTIFIER: US 5451519 A

TITLE: Cloning restriction endonuclease genes by modulating methyltransferase activity

| | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
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| Terms | Documents |
|---|-----------|
| ('6011200' '6066625' '6020318' '5652105' '6184211' '5451519' '6506735')[PN] | 7 |

Display Format:

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WEST

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L13: Entry 13 of 23

File: DWPI

Jul 4, 2002

DERWENT-ACC-NO: 2002-635674

DERWENT-WEEK: 200275

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TITLE: Reducing virulence or pathogenicity of bacteria, by contacting bacteria with an agent that alters the native level of DNA methyltransferase activity of bacteria or administering the agent to bacteria

Basic Abstract Text (1):

NOVELTY - Reducing (M1) virulence or pathogenicity of bacteria, by contacting bacteria with an agent that alters native level of DNA methyltransferase (Dam) activity of bacteria thus altering native level of methylation of adenine in GATC tetranucleotide of bacteria, or administering an agent that alters a pathogenic bacteria's native Dam activity thus altering Dam activity of bacteria, is new.

Basic Abstract Text (3):

(1) treating (M2) a bacterial infection, by administering an agent that reduces the level or activity of a Dam thus reducing methylation of adenine in a GATC tetranucleotide in the bacteria, thus inhibiting the virulence of the bacteria; and

Basic Abstract Text (7):

MECHANISM OF ACTION - Inhibitor of Dam activity; inhibitor of bacterial virulence or proliferation (claimed).

Basic Abstract Text (8):

USE - M1 is useful for reducing bacterial virulence or pathogenicity of a pathogenic bacteria. M2 is useful for treating a bacterial infection. (I) is useful for treating a bacterial infection, by administering to a subject such as a mammal, preferably a human, infected with a pathogenic bacteria a therapeutically effective amount of (I), and allowing the agent to contact the bacteria for a period of time and under conditions so as to inhibit proliferation of the bacteria (claimed).

Standard Title Terms (1):

REDUCE VIRULENT PATHOGEN BACTERIA CONTACT BACTERIA AGENT ALTER NATIVE LEVEL DNA ACTIVE BACTERIA ADMINISTER AGENT BACTERIA

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MIC

PP 501.847

From: Portner, Ginny
Sent: Tuesday, August 12, 2003 3:47 PM
To: STIC-ILL
Subject: -0/928,227

08545761 95234060 PMID: 7536414

The mechanism of inhibition of DNA (cytosine-5-)-methyltransferases by 5-azacytosine is likely to involve methyl transfer to the inhibitor.

Gabbara S; Bhagwat A S

Department of Chemistry, Wayne State University, Detroit, MI 48202, USA.

Biochemical journal (ENGLAND) Apr 1 1995, 307 (Pt 1) p87-92, ISSN 0264-6021 Journal Code: 2984726R

Contract/Grant No.: HG00004; HG; NHGRI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

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mi
QBI, JS

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From: Portner, Ginny
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Subject: -0/928,227

Importance: High

07371801 92234969 PMID: 1569034

Escherichia coli cells lacking methylation- blocking factor (leucine-responsive regulatory protein) have precise timing of initiation of DNA replication in the cell cycle.

Smith D W; Stine W B; Svitil A L; Bakker A; Zyskind J W
Department of Biology, University of California, San Diego, La Jolla 92093.

Journal of bacteriology (UNITED STATES) May 1992, 174 (9) p3078-82, ISSN 0021-9193 Journal Code: 2985120R

Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed
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Mu
QBI. J8

From: Portner, Ginny
Sent: Tuesday, August 12, 2003 4:49 PM
To: STIC-ILL
Subject: -0/928,227

Evidence for a methylation- blocking factor (mbf) locus involved in pap pilus expression and phase variation in Escherichia coli.

Braaten B A; Blyn L B; Skinner B S; Low D A

Department of Pathology, University of Utah Medical Center, Salt Lake City 84132.

Journal of bacteriology (UNITED STATES) Mar 1991, 173 (5) p1789-800, ISSN 0021-9193 Journal Code: 2985120R

Contract/Grant No.: 5T32-GM07464; GM; NIGMS; AI00881; AI; NIAID; AI23348; AI; NIAID

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

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DB 74. M65
Adams

From: Portner, Ginny
Sent: Tuesday, August 12, 2003 4:54 PM
To: STIC-ILL
Subject: -0/928,227

Importance: High

10662852 97011573 PMID: 8858583

The clp (CS31A) operon is negatively controlled by Lrp, ClpB, and L-alanine at the transcriptional level.

Martin C

Laboratoire de Microbiologie, Institut National de la Recherche Agronomique, Saint-Genes-Champanelle, France. cmartin@clermont.inra.fr

Molecular microbiology (ENGLAND) Jul 1996, 21 (2) p281-92, ISSN 0950-382X Journal Code: 8712028

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

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QP501.563

From: Portner, Ginny
Sent: Tuesday, August 12, 2003 4:55 PM
To: STIC-ILL
Subject: -0/928,227

Importance of the replication origin sequestration in cell division of
Escherichia coli.

Meury J; Bahloul A; Kohiyama M
Biochimie Genetique, Universite Paris, France.
Biochimie (FRANCE) 1995, 77 (11) p875-9, ISSN 0300-9084
Journal Code: 1264604
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed
Subfile: INDEX MEDICUS

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mic
OH506, E5

From: Portner, Ginny
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Subject: -0/928,227

Importance: High

10310697 96112794 PMID: 8846772

Differential binding of Lrp to two sets of pap DNA binding sites mediated by Pap I regulates Pap phase variation in Escherichia coli.

Nou X; Braaten B; Kaltenbach L; Low D A

Department of Pathology, University of Utah, Salt Lake City 84132, USA.

EMBO journal (ENGLAND) Dec 1 1995, 14 (23) p5785-97, ISSN 0261-4189

Journal Code: 8208664

Contract/Grant No.: 2R01 AI23348; AI; NIAID

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

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QB74. M65
Adomb

From: Portner, Ginny
Sent: Tuesday, August 12, 2003 4:58 PM
To: STIC-ILL
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08188797 94254718 PMID: 7910935

Leucine-responsive regulatory protein and deoxyadenosine methylase control the phase variation and expression of the *sfa* and *daa* pili operons in *Escherichia coli*.

van der Woude M W; Low D A

Department of Pathology, University of Utah School of Medicine, Salt Lake City 84132.

Molecular microbiology (ENGLAND) Feb 1994, 11 (4) p605-18, ISSN 0950-382X Journal Code: 8712028

Contract/Grant No.: 2R01 AI23348; AI; NIAID; 5K04 AI881; AI; NIAID

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

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